

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P200058

Luminaire Tested: **GAP-AF-02-LED-U-T4W-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-AF-02-LED-U-T4W-7030-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13088.2 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

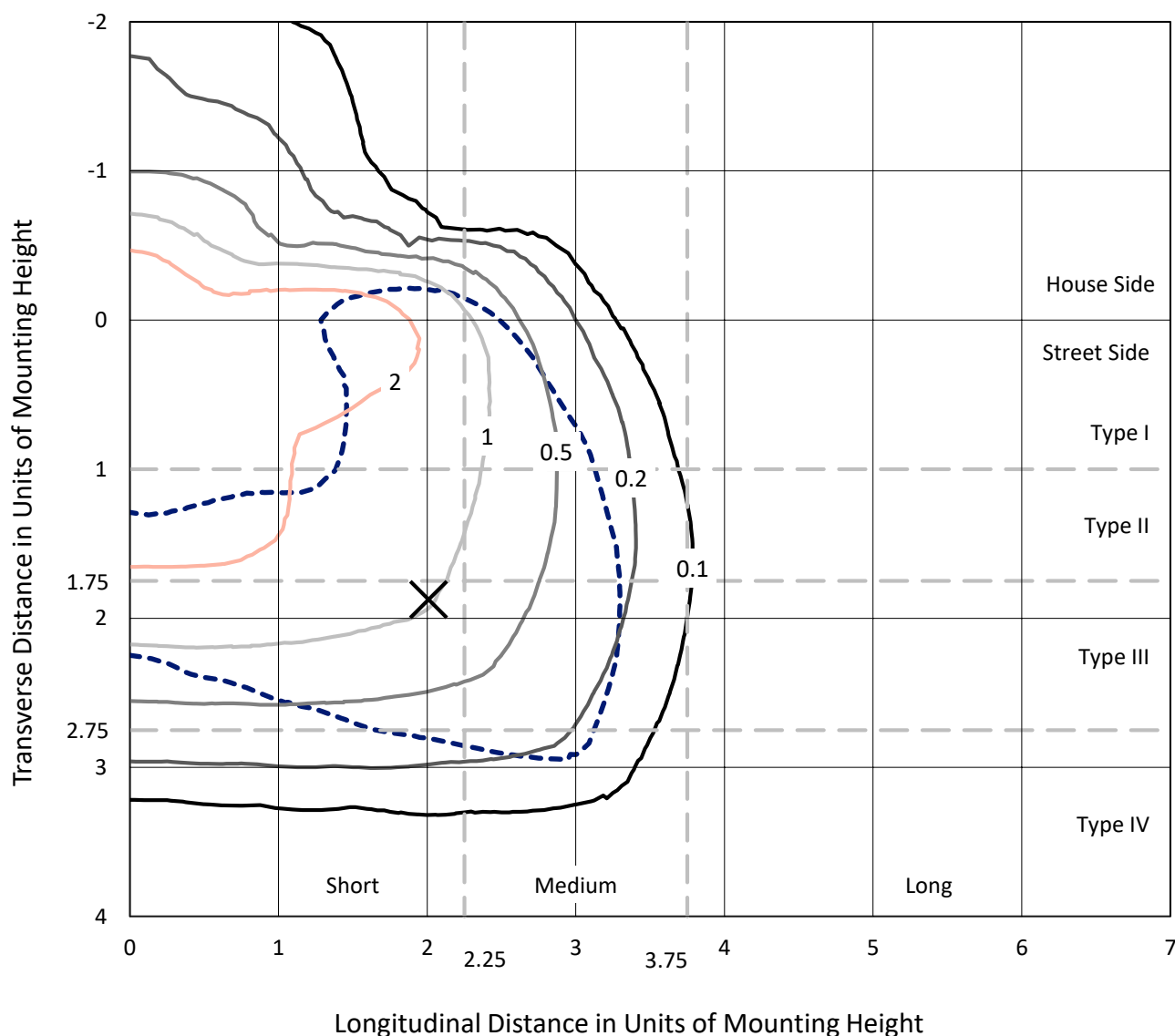


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

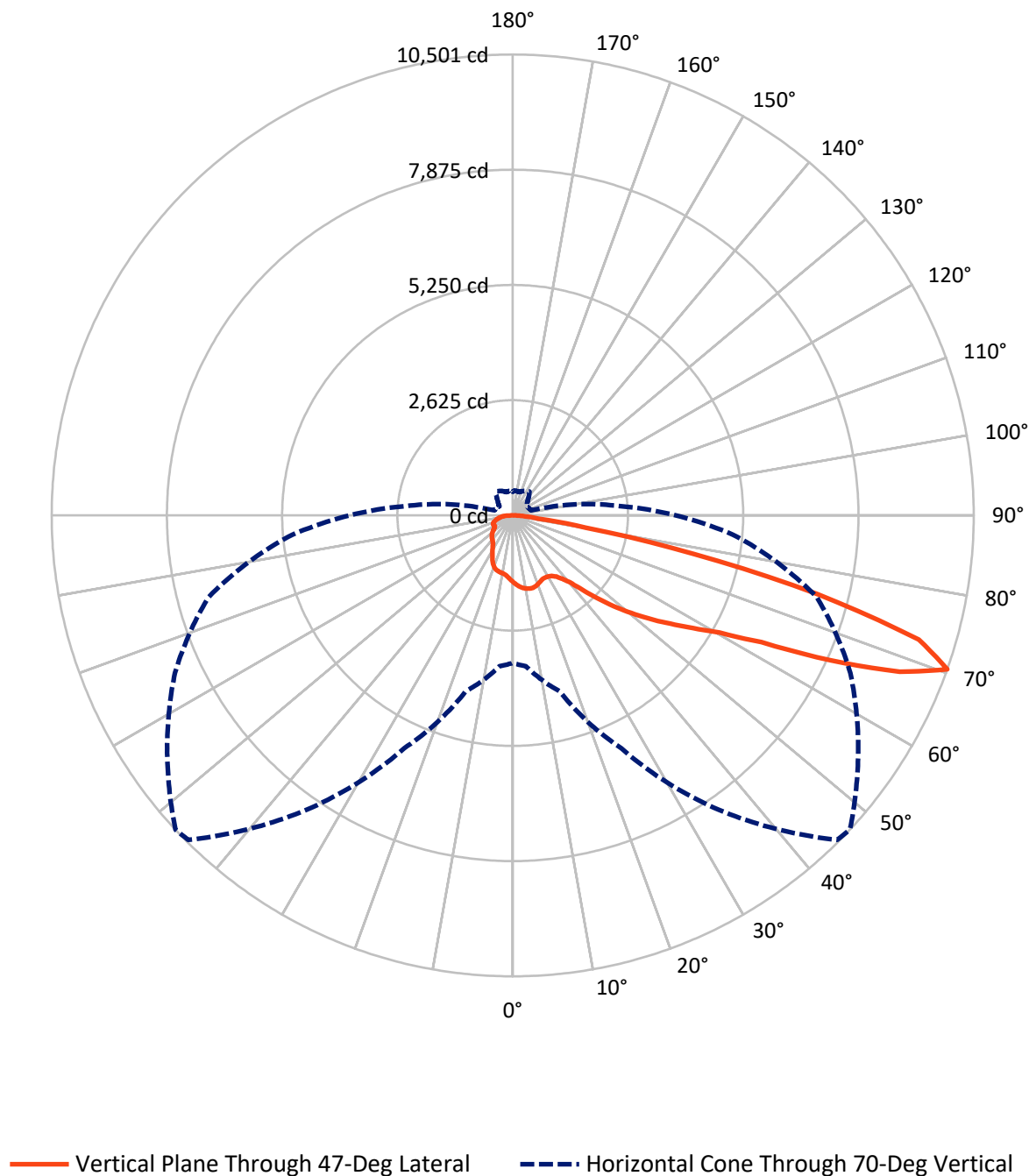


Based on 20 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2730.4	0.0	2730.4
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	10357.7	0.0	10357.7
	% Fixture	79.1	0.0	79.1
Total	Lumens	13088.2	0.0	13088.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	1.1
10°-20°	426.9	3.3
20°-30°	630.4	4.8
30°-40°	916.3	7.0
40°-50°	1649.0	12.6
50°-60°	2856.7	21.8
60°-70°	4077.3	31.2
70°-80°	2093.1	16.0
80°-90°	293.0	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	13088.2	100.0
0°-180°	13088.2	100.0

Coefficient of Utilization



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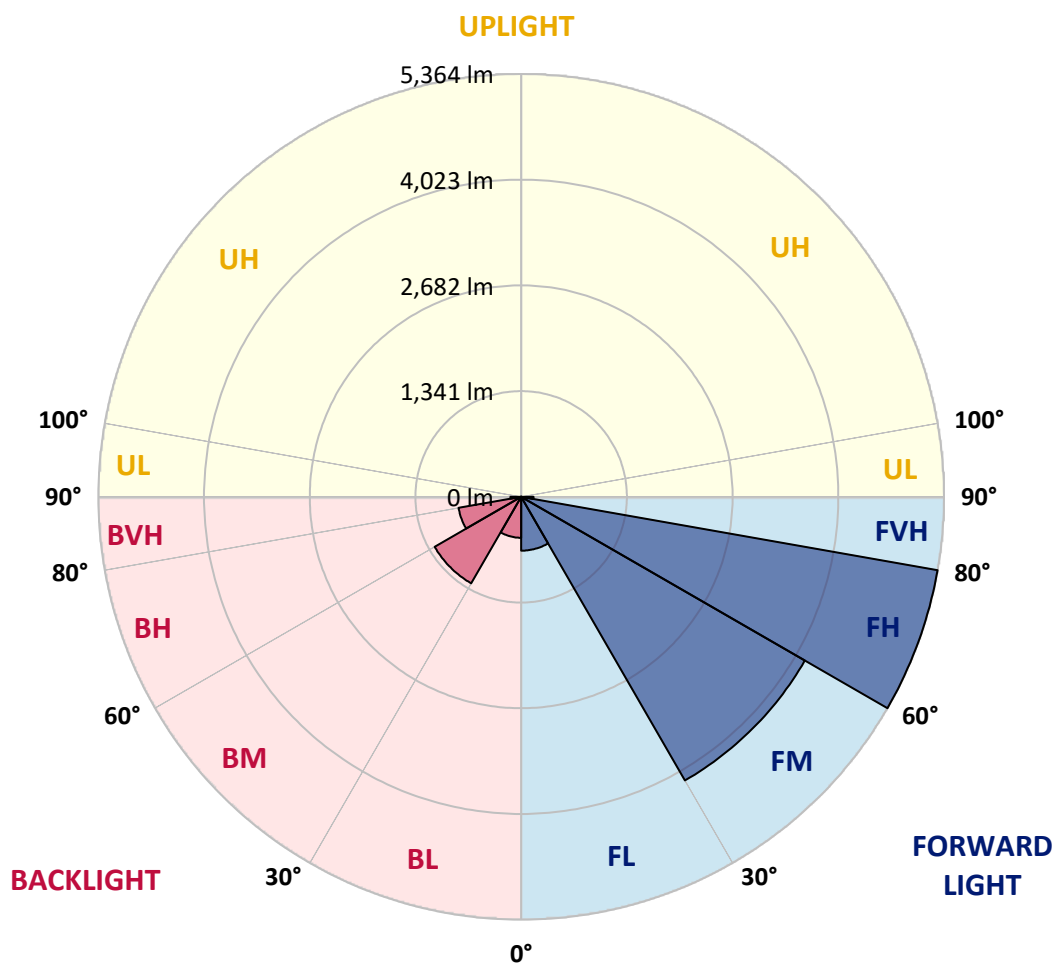
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	682.9	5.2			
FM	(30°-60°)	4154.6	31.7			
FH	(60°-80°)	5363.9	41.0			G3/7500
FVH	(80°-90°)	156.4	1.2			G2/225
BL	(0°-30°)	519.9	4.0	B2/1000		
BM	(30°-60°)	1267.4	9.7	B2/2500		
BH	(60°-80°)	806.5	6.2	B2/1000		G2/1000
BVH	(80°-90°)	136.7	1.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1518.6	1518.6	1518.6	1518.6	1518.6	1518.6	1518.6	1518.6	1518.6	1518.6	1518.6
2.5°	1607.7	1604.6	1603.3	1600.7	1597.6	1581.6	1578.5	1567.0	1551.2	1534.5	1517.4
5°	1713.5	1712.8	1705.9	1693.1	1672.8	1637.7	1629.4	1601.4	1563.8	1527.6	1491.3
7.5°	1806.5	1800.7	1787.4	1762.0	1726.2	1678.4	1667.0	1628.2	1576.6	1526.9	1477.8
10°	1874.6	1871.4	1842.1	1807.0	1760.6	1707.7	1694.4	1651.1	1594.4	1531.4	1470.2
12.5°	1913.4	1907.0	1873.2	1831.3	1775.9	1724.3	1710.9	1667.0	1603.3	1531.4	1459.3
15°	1910.8	1906.5	1872.7	1826.9	1770.8	1725.5	1713.5	1669.6	1601.4	1525.0	1445.4
17.5°	1859.9	1861.9	1833.2	1788.0	1742.1	1707.7	1696.9	1656.2	1588.6	1512.2	1428.9
20°	1770.8	1779.8	1760.6	1720.5	1695.0	1671.4	1664.4	1630.0	1569.0	1493.8	1411.0
22.5°	1681.6	1689.9	1682.3	1648.5	1644.7	1630.7	1626.9	1602.1	1551.7	1482.3	1400.1
25°	1616.1	1623.7	1622.4	1593.1	1604.6	1603.9	1600.7	1588.6	1547.8	1482.3	1402.2
27.5°	1598.3	1600.7	1598.3	1571.4	1587.4	1600.1	1597.6	1595.7	1559.3	1500.7	1426.3
30°	1659.3	1655.5	1635.8	1581.6	1596.3	1614.2	1611.6	1612.8	1593.8	1549.2	1480.5
32.5°	1903.2	1886.1	1823.6	1671.4	1632.7	1642.1	1643.5	1664.4	1667.7	1623.7	1564.5
35°	2268.1	2249.0	2168.1	1912.1	1745.3	1712.2	1712.2	1744.0	1763.1	1730.6	1695.0
37.5°	2654.6	2633.5	2590.3	2245.9	1982.2	1833.8	1830.6	1852.9	1880.4	1888.0	1896.8
40°	3093.9	3071.6	3083.8	2620.2	2312.7	2044.6	1999.3	1983.5	2057.4	2106.3	2177.6
42.5°	3574.6	3564.5	3569.0	3037.3	2689.0	2359.8	2295.4	2213.4	2302.4	2389.7	2539.3
45°	4019.7	4028.7	4024.2	3483.6	3108.0	2744.4	2676.2	2517.0	2604.3	2753.9	2997.7
47.5°	4409.4	4372.5	4429.8	3971.3	3577.2	3174.8	3090.7	2877.5	2966.0	3150.6	3563.3
50°	4882.6	4877.5	4793.4	4622.1	4144.5	3607.2	3497.0	3249.9	3387.5	3644.2	4275.8
52.5°	5379.8	5287.5	5210.5	5128.3	4746.3	4050.3	3915.3	3621.2	3882.8	4205.7	5144.3
55°	5481.7	5440.3	5535.8	5674.1	5326.4	4510.7	4353.4	4086.7	4440.7	4847.5	6145.9
57.5°	5699.5	5698.9	5896.2	6142.7	5923.6	4999.0	4840.5	4648.9	5067.9	5582.9	7209.3
60°	5846.6	5888.0	6254.8	6732.9	6510.1	5563.3	5417.4	5297.8	5781.0	6405.0	8200.0
62.5°	5923.6	5979.6	6480.1	6972.4	7339.2	6502.4	6356.6	6184.1	6724.7	7306.6	8779.4
65°	5603.4	5713.5	6445.1	7179.3	8065.0	8024.9	7959.3	7656.3	7904.6	8019.2	8570.0
67.5°	4717.0	4829.7	5681.7	6986.4	8583.3	9493.2	9507.2	8989.6	8630.4	8080.3	7205.4
70°	3360.7	3449.2	4154.1	5857.4	8188.6	10452.9	10500.6	9604.0	8485.8	7165.9	5034.1
72.5°	1595.7	1649.9	2317.1	3812.2	6497.9	9577.2	9669.6	8819.5	7215.6	5305.3	2746.2
75°	586.4	603.0	783.2	1621.7	3768.9	7062.7	7171.7	6322.3	4783.3	2641.3	1046.1
77.5°	351.5	362.3	439.3	684.5	1482.3	4036.9	4198.1	3438.4	2090.4	983.2	514.5
80°	245.9	253.4	315.2	426.0	700.5	1538.4	1681.6	1403.4	832.9	622.1	374.4
82.5°	166.2	170.0	221.6	287.8	465.5	549.5	592.8	624.0	561.6	462.9	237.5
85°	108.9	112.7	150.2	189.8	296.1	284.0	290.3	367.4	410.0	314.5	131.7
87.5°	62.4	64.9	90.4	101.3	145.2	120.3	121.6	193.6	262.3	212.1	80.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1518.6	1518.6	1518.6	1518.6	1518.6	1518.6	1518.6	1518.6	1518.6	1518.6	1518.6
2.5°	1512.9	1504.6	1486.2	1474.7	1463.8	1461.4	1456.9	1456.2	1455.6	1455.6	1453.7
5°	1479.2	1465.1	1436.5	1420.6	1407.1	1405.9	1405.3	1408.5	1409.8	1411.0	1409.1
7.5°	1457.5	1438.4	1402.8	1379.8	1363.9	1360.1	1366.5	1381.1	1390.7	1394.4	1392.5
10°	1444.2	1420.6	1379.2	1354.4	1340.9	1339.1	1347.3	1364.5	1384.4	1392.0	1391.3
12.5°	1428.9	1402.2	1358.2	1332.1	1324.4	1328.3	1339.1	1355.1	1375.3	1387.5	1388.1
15°	1413.6	1382.3	1337.2	1314.3	1311.0	1316.1	1326.3	1338.4	1354.4	1366.5	1367.7
17.5°	1395.1	1362.7	1317.4	1293.8	1291.3	1293.8	1294.5	1300.8	1311.0	1322.5	1325.8
20°	1375.3	1342.2	1295.2	1271.6	1260.1	1249.9	1238.5	1239.8	1243.0	1254.4	1256.9
22.5°	1361.4	1328.3	1277.9	1245.4	1214.9	1184.4	1161.4	1158.2	1159.5	1169.1	1172.3
25°	1362.7	1327.6	1273.5	1217.4	1150.6	1101.6	1071.0	1066.0	1065.3	1072.3	1076.8
27.5°	1387.5	1352.4	1290.1	1188.8	1080.6	1007.9	975.4	971.7	966.6	968.5	973.6
30°	1442.9	1410.4	1330.1	1159.5	1004.7	916.2	882.5	878.7	871.7	868.5	872.3
32.5°	1533.2	1506.5	1388.6	1131.5	929.0	837.9	803.6	795.3	790.8	787.0	790.2
35°	1683.5	1672.1	1467.1	1100.9	862.2	777.5	746.2	733.5	727.1	734.1	739.2
37.5°	1919.1	1925.4	1569.6	1053.1	810.6	737.4	711.3	696.6	687.0	692.8	698.5
40°	2252.8	2257.3	1682.9	985.6	766.0	713.8	685.8	672.4	659.1	648.9	648.2
42.5°	2690.8	2645.7	1794.4	912.5	714.4	699.1	667.9	651.4	631.0	603.0	597.3
45°	3210.5	3051.9	1879.0	828.4	656.4	681.3	648.2	625.3	593.5	562.9	559.7
47.5°	3809.0	3488.1	1920.4	741.3	602.3	655.2	624.0	587.7	547.6	532.3	530.5
50°	4539.9	4005.8	1940.1	656.4	555.2	620.8	589.0	546.3	512.5	509.3	507.5
52.5°	5372.2	4628.4	1946.6	587.0	516.4	576.3	560.3	519.0	492.2	494.7	494.7
55°	6243.3	5271.6	1859.9	536.8	480.7	530.5	541.3	508.2	485.8	496.0	499.9
57.5°	7043.1	5841.4	1587.4	497.9	447.0	495.4	534.3	518.3	503.0	544.4	547.0
60°	7656.9	6178.3	1185.6	462.9	422.2	483.3	552.8	557.1	560.9	659.7	673.0
62.5°	7785.5	6066.3	815.1	435.5	410.7	493.6	586.4	587.0	582.6	651.4	659.7
65°	7195.2	5357.5	592.8	420.2	401.2	512.0	615.1	601.7	572.4	624.6	609.3
67.5°	5714.2	4036.4	493.6	408.7	387.1	510.7	645.6	615.1	566.7	612.0	587.0
70°	3709.1	2440.7	439.3	399.3	370.6	486.4	663.5	613.8	550.1	569.2	540.0
72.5°	1809.7	1091.4	403.0	385.2	353.4	452.8	662.8	602.3	532.9	531.6	515.8
75°	708.1	499.9	370.0	364.3	324.1	414.5	645.0	585.8	512.5	492.2	486.4
77.5°	414.5	356.6	327.9	333.0	289.1	376.3	619.0	557.1	484.6	460.4	454.0
80°	301.8	266.8	279.4	287.8	247.0	338.1	583.9	522.1	453.3	465.5	456.6
82.5°	193.6	172.0	226.7	234.9	205.6	299.3	545.6	485.2	409.4	371.8	363.0
85°	98.7	108.9	168.7	178.9	158.5	245.9	499.2	436.2	359.8	309.4	314.5
87.5°	55.4	74.6	107.6	120.3	112.1	189.1	405.0	359.8	293.6	238.7	210.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)